

**Project Change Request
PCR 01-029**

**Video Distance Learning
Classroom Studio
Elementary Schools**

prepared for

Memphis City Schools

January 10 , 2002

IBM Global Services



Attachment 17

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1.0 Executive Summary

The Memphis City Schools (MCS) Network Infrastructure Project has provided the district with a high bandwidth, Asynchronous Transfer Mode (ATM) backbone capable of transporting data, telephone and video transmissions simultaneously. The strategic vision and planning of this infrastructure, now enables MCS to implement high quality Distance Learning applications, using the latest in distributed video technology.

This Project Change Request provides an IBM managed, integrated solution to develop a Distance Learning Classroom Studio for school sites. MCS will be able to initiate high quality, multi-point, interactive Distance Learning sessions throughout the district to locations with associated endpoint equipment and network connectivity.

2.0 Statement of Work for Project Change Request

This section defines the scope of service that will be provided by IBM under the terms and conditions of the *IBM Customer Agreement (Agreement)*. The tasks to be performed by IBM are defined and an estimated schedule is provided. In addition, the responsibilities of Memphis City Schools (MCS) are listed.

Changes to this Statement of Work will be processed in accordance with the procedure described as "Project Change Control Procedure."

The investigation and the implementation of changes may result in modifications to the Estimated Schedule, Charges, and/or other terms of the *Agreement*.

2.1 Project Scope

IBM will provide project integration and management of the Video Distance Learning Classroom Studio Project for Memphis City Schools. The scope of this project enables one Distance Learning Classroom Studio per site in 75 MCS Elementary sites and includes the following key elements:

- An Educator Video System, including Video CODEC, and associated operating software will be installed in the designated Distance Learning classroom.
- Three 35" monitors, teacher podium, 2 video cameras, AudioScience microphone, system controller, audio system and associated cabling will be provided and installed.
- Peripheral items will include, director AudioScience microphone, telephone add-on system, Smartboard and stand, tri-locator mat pack, document camera, Sony VCR, and associated cabling accessories.
- Associated software for operation of the video network system.
- Support of the installed equipment and software will be provided for one year.
- On-site training sessions with course materials, will be provided for each site.
- One APC Uninterruptible Power Supply (UPS) will be installed per site.
- A dedicated 30 amp electrical circuit will be installed in each Distance Learning classroom.
- Two additional CAT6 Ethernet drops and Ethernet switch will be installed for network connectivity.

2.2 Key Assumptions

This Statement of Work and IBM's estimates to perform the Statement of Work are based on the following key assumptions.

1. The MCS Distance Learning Classroom Studio is a suitable environment for broadcasting and receiving video content.

2. As the number of Distance Learning sites grows and demand for Video transmissions increases, additional video transmission equipment and networking resources may be required in the future.
3. MCS has workstations available for classroom applications or will purchase them through other PCRs or sources.
4. Work performed under this agreement will be performed during normal business hours, Monday through Friday, 8:00 a.m. to 5:00 p.m. local time, except holidays, unless otherwise agreed to by MCS and IBM.
5. The success of this project will require the active participation of both MCS and IBM personnel. The appropriate MCS personnel will be available for consultation (i.e. interviews, review sessions, etc.) throughout the duration of the project.
6. MCS will provide a designated Distance Learning classroom area no larger than 25' by 30'.
7. Furniture, fixtures, and room accouterments required for Distance Learning applications are supplied by MCS.
8. If additional electrical capacity is required in the building, MCS is responsible for obtaining additional electrical resources.
9. Products are subject to IBM Product Safety review and approval. Should a product not be approved i.e. OSHA requirements for use of a certified commodity where review has been conducted by a Nationally Recognized Test Lab (NRTL), a substitute commodity will be negotiated.

2.3 IBM Responsibilities

2.3.1 Educator Video System

Task Description: The objective of this task is to install and configure the Video Codec and Educator Video System in the Distance Learning Classroom Studio and provide connectivity to the MCS ATM network. MCS and IBM project and technical specialists will develop a specific work plan for the location and agree to an estimated schedule.

The following Subtasks will be performed:

1. IBM will manage the procurement, configuration, and installation of a Tandberg 6000 Codec and associated software to provide IP based transmissions via Ethernet over the MCS ATM network. (Erate eligible)
2. The installation includes IBM networking specialists who will connect the system to the ATM network and enable addressing and configuration as required. (Erate eligible)
3. IBM will provide on-site technical support and maintenance for the Tandberg 6000 Codec for one year. (Erate eligible)
4. IBM will manage the procurement, configuration, and installation of the Tandberg Educator System including 35" monitors, teacher podium, 2 video cameras, system controller, audio system and associated cabling.

5. Peripheral items will include, director AudioScience microphone, telephone add-on system, Smartboard and stand, tri-locator mat pack, document camera, Sony VCR, and associated Belkin cabling accessories.
6. On-site training sessions with course materials, will be provided for each site.
7. IBM will provide on-site technical support and maintenance on the system for one year utilizing local on-site technical support with Interactive Solutions, Inc technicians.

Completion Criteria: This task is complete when the agreed to work plan has been completed and inspected.

Deliverables: Updates included in Status Reports.

Completed MCS Computer Equipment Delivery Report (CEDR)

2.3.2 Electrical and Network Connectivity

Task Description: The objective of this task is to provide a dedicated electrical circuit, an Uninterruptible Power Supply, and additional CAT6 Ethernet cable drops.

The following Subtasks will be performed:

1. IBM will manage the procurement, delivery, and installation of one APC Smart-UPS in each Distance Learning classroom. (Erate eligible)
2. IBM will manage the installation of two CAT6 cable drops from an MDF/IDF closet to the Distance Learning Classroom. (Erate eligible)
3. IBM will manage the procurement, delivery, and installation of an Ethernet switch providing network connectivity for the CAT6 drops. (Erate eligible)
4. IBM will manage the installation of a single 30 amp dedicated electrical circuit to each Distance Learning classroom.

Completion Criteria: This task is complete when the agreed to work plan has been completed and inspected.

Deliverables: Updates included in Status Reports.

Completed MCS Computer Equipment Delivery Report (CEDR)

2.4 MCS Responsibilities

The responsibilities listed in this section are in addition to those responsibilities specified in the *Agreement* and are to be provided at no charge to IBM. IBM's performance is predicated upon the following responsibilities being fulfilled by MCS.

2.4.1 MCS Project Manager

Prior to the start of this Statement of Work under the Agreement, MCS will designate a person, called the MCS Project Manager, to whom all IBM communications will be addressed and who has the authority to act for MCS in all aspects of the contract.

The responsibilities of the MCS Project Manager include:

1. Serving as the interface between the IBM project team and all MCS departments participating in this project.
2. Administering Project Change Control, with the IBM Project Manager, in accordance with the Project Change Control Procedure.
3. Attendance at project status meetings.
4. Providing timely information, data, decisions, approvals, and resolve project issues the MCS organization, as necessary.
5. Resolution of deviations from project plans which may be caused by MCS.
6. Providing appropriate personnel to support user related project tasks such as MCS systems administration, application support, end user requirements, and all MCS systems interfaces.

2.4.2 Site Preparation

1. MCS will provide site preparation to enable the Distance Learning Studio to effectively function in this environment. This may include the need to increase electrical capacity in the building.
2. MCS will provide all furniture, fixtures and room accouterments required for Distance Learning applications.

2.5 Deliverable Materials

The following items will be delivered to MCS under this Statement of Work.

2.5.1 Type I Materials

None

2.5.2 Type II Materials

- Updates included in Status Reports
- Completed MCS Computer Equipment Delivery Report (CEDR)

2.6 Completion Criteria

IBM shall have fulfilled its obligations under this Statement of Work when any one (1) of the following first occurs:

- IBM accomplishes the IBM tasks described in "IBM Responsibilities," including delivery to MCS of the materials listed in "Deliverable Materials".
- MCS or IBM terminates the Project in accordance with the provisions of the *Agreement*.

2.7 Project Change Control

The following provides a detailed process to follow if a change to this Statement of Work is required.

- A Project Change Request (PCR) will be the vehicle for communicating change. The PCR must describe the change, the rationale for the change and the effect the change will have on the project.
- The designated Project Manager of the requesting party will review the proposed change and determine whether to submit the request to the other party.
- Both Project Managers will review the proposed change and approve it for further investigation or reject it. IBM will specify any charges for such investigation. If the investigation is authorized, the Project Managers will sign the PCR which will constitute approval for the investigation charges. IBM will invoice MCS for any such charges. The investigation will determine the effect that the implementation of the PCR will have on price, schedule and other terms and conditions of the *Agreement*.
- A written Change Authorization and/or Project Change Request (PCR) must be signed by both parties to authorize implementation of the investigated changes.

2.8 Estimated Schedule

The estimated schedule is:

Estimated Start Date: July 1, 2002

Estimated End Date: June 30, 2003

2.9 Charges

The prices for performing the IBM tasks defined in the Statement of Work are displayed below and will be billed monthly as work is performed. Allocations for Erate funding are estimates for planning purposes.

	Per Site	75 Schools
Educator Video System		
Erate Eligible	\$39,963	\$2,997,235
Not Erate Eligible	\$58,636	\$4,397,681
Recurring Maintenance		
Erate Eligible	\$2,684	\$201,316
Not Erate Eligible	\$671	\$50,329
Electrical and Network Connectivity		
Erate Eligible	\$5,762	\$432,139
Not Erate Eligible	\$1,494	\$112,050
Sub-total Erate Eligible	\$48,409	\$3,630,690
Sub-total Not Erate Eligible	\$60,801	\$4,560,060
Total Project	\$109,210	\$8,190,750
Estimated Erate Funding	\$43,568	\$3,267,621
Estimated MCS Funding	\$65,642	\$4,923,129

Invoices are payable upon receipt.

3.0 IBM Change Authorization for Project Support Services

Each of us agrees to modify the referenced Statement of Work and any applicable terms as follows:

- Tandberg Video CODEC
- Tandberg Educator System which includes classroom A/V monitors, cameras, microphones, speakers, podium, and control system
- Peripheral devices including Smartboard, document camera, VCR, tri-locator mat, and cabling
- Associated operating software
- Support of the installed equipment and software for one year
- On site training sessions with course materials
- Uninterruptible Power Supply
- Dedicated 30 amp electrical circuit
- Additional two CAT6 Ethernet network cable drops and Ethernet switch

IBM and Memphis City Schools mutually agree that final approval of this project may be subject to review by the Memphis City Schools Board of Education and the availability of Universal Services Funds(E-rate). If funding or approval is not committed, no products or services will be delivered and this Change Authorization is void. If partial funding is committed, the products and services will be adjusted based upon a mutually agreed scope of effort.

Charges: The total for the 75 Elementary schools is \$8,190,750

We agree to incorporate the changes described in this PCR provided you accept this PCR on or before February 16, 2002 by signing in the space provided below.

Each of us agrees that the complete agreement between us about these Services consists of 1) this Change Authorization, 2) the referenced Statement of Work, and 3) the IBM Customer Agreement or IBM Agreement for Services, as applicable (or any equivalent agreement signed by both of us).

Agreed to: **Memphis City Schools**

By: Nancy Richie
Maneta H. Harris

Authorized Signature

Name (type or print) Nancy Richie

Date: 1/15/02

Customer Number: **5683003**

Customer Address: **2597 Avery Avenue**

Memphis, TN 38112

Project Name or Identifier: **Technology Business Management Contract**

Agreed to: **International Business Machines Corporation Armonk, New York 10504**

By: [Signature]

Authorized Signature

Name (type or print) J M STEEN

Date: 1-15-02

Reference Agreement Number: **5J21301**

Reference Statement of Work number:

Change Authorization Number: **PCR 01-029**

IBM Office Number: **NFK**

IBM Office Address: **6410 Poplar Ave. Suite 800**

Memphis, TN 38119

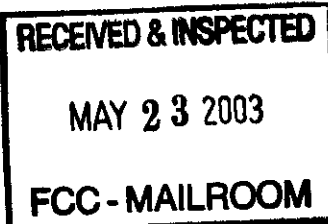
[Signature] 1-15-02

Attachment A

PCR 01-029 Elem Schools

Entity	School Name
42175	A.B.HILL ELEMENTARY
42256	ALCY ELEMENTARY
42182	ALTON ELEMENTARY
42349	BERCLAIR ELEMENTARY
42254	BETHEL GROVE ELEM
42367	BROOKMEADE ELEM
42159	BRUCE ELEMENTARY
42191	CALDWELL ELEMENTARY
42167	CARNES ELEMENTARY
42255	CHARJEAN ELEMENTARY
42386	COLEMAN ELEMENTARY
42365	CORNING ELEMENTARY
42228	CORO LAKE ELEMENTARY
42317	CROMWELL ELEMENTARY
42171	CUMMINGS ELEMENTARY
42369	DENVER ELEMENTARY
42200	DOUGLASS ELEMENTARY
42250	DUNBAR ELEMENTARY
42184	DUNN AVENUE ELEM
42383	EGYPT ELEMENTARY
42305	EVANS ELEMENTARY
42229	FAIRLEY ELEMENTARY
42212	FLORIDA-KANSAS ELEMENTARY
42215	FORD ROAD ELEMENTARY
42258	FOX MEADOWS ELEMENTARY
42375	FRAYSER ELEMENTARY
42357	GEORGIA AVENUE ELEM
42363	GEORGIAN HILLS ELEM
42307	GOODLETT ELEMENTARY
42197	GORDON ELEMENTARY
42378	GRANDVIEW ELEM SCHOOL
42190	GUTHRIE ELEMENTARY
42179	HAMILTON ELEMENTARY
42249	HANLEY ELEMENTARY
42362	HAWKINS MILL ELEM
42203	HOLLYWOOD ELEMENTARY
42201	JACKSON ELEMENTARY
42206	KINGSBURY ELEMENTARY
42192	KLONDIKE ELEMENTARY
42313	KNIGHT ROAD ELEMENTARY
42228	LAKEVIEW ELEMENTARY
42359	LAROSE ELEMENTARY
42360	LAUDERDALE ELEMENTARY
42246	LESTER ELEMENTARY
42208	LEVI ELEMENTARY
42178	LINCOLN ELEMENTARY
42356	LOCKE ELEMENTARY
42341	MACON ELEMENTARY
42252	MAGNOLIA ELEMENTARY
42227	MANOR LAKE ELEMENTARY
42187	NORRIS ELEMENTARY
42318	OAKHAVEN ELEMENTARY
42279	OAKSHIRE ELEMENTARY
42176	ORLEANS ELEMENTARY
42210	RIVERVIEW ELEMENTARY
42248	ROZELLE ELEMENTARY
42198	SHANNON ELEMENTARY
42239	SHARPE ELEMENTARY
42311	SHEFFIELD ELEMENTARY
42241	SHERWOOD ELEMENTARY
42380	SPRING HILL ELEMENTARY
42205	SPRINGDALE ELEMENTARY
42172	STAFFORD ELEMENTARY
42195	VOLLENTINE ELEMENTARY
42214	WALKER ELEMENTARY
42207	WELLS STATION ELEM
42225	WESTHAVEN ELEMENTARY
42370	WESTSIDE ELEMENTARY
42222	WESTWOOD ELEMENTARY
42217	WHITE'S CHAPEL ELEM
42377	WHITNEY ELEMENTARY
42265	WINCHESTER ELEMENTARY
221473	HICKORY RIDGE ELEMENTARY
221478	GETWELL ELEMENTARY
221481	ROBERT CHURCH ELEMENTARY

PCR 00¹-030



Network Cabling Maintenance Support

prepared for

Memphis City Schools

January 14, 2002

IBM Global Services



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1.0 Executive Summary

IBM will provide on-site technical services for Network Cabling Maintenance Support for the period of July 1, 2002 through June 30, 2003. The scope of this project includes the following key elements:

- Response to service requests for problems determined to be the fault of IBM installed network cabling.
- Technical labor for the repair of IBM installed network cabling.
- Cabling materials associated with the repairs.

2.0 Statement of Work

This section defines the scope of service that will be provided by IBM under the terms and conditions of the *IBM Customer Agreement (Agreement)*. The tasks to be performed by IBM are defined and an estimated schedule is provided. In addition, the responsibilities of Memphis City Schools (MCS) are listed.

Changes to this Statement of Work will be processed in accordance with the procedure described as "Project Change Control Procedure." The investigation and the implementation of changes may result in modifications to the Estimated Schedule, Charges, and/or other terms of the *Agreement*.

2.1 Key Assumptions

This Statement of Work and IBM's estimates to perform the Statement of Work are based on the following key assumptions:

1. Work performed under this agreement will be primarily performed during normal business hours, Monday through Friday, 8:00 a.m. to 5:00 p.m. local time, except holidays, unless otherwise agreed to by MCS and IBM.
2. This maintenance support is for the IBM installed network cabling. Repairs for other cabling, such as electrical wiring, is not included in this PCR.
3. The total materials charges are limited to the amounts identified in section 2.9 Charges.
4. MCS will provide access to the building as needed to accommodate the on-site support activity.
5. Work will be performed at approximately 184 MCS sites in Memphis, Tennessee.
6. The success of this project will require the active participation of both MCS and IBM personnel. The appropriate MCS personnel will be available for consultation (i.e. interviews, review sessions, etc.) throughout the duration of the project.
7. Universal Services Funds Erate eligibility is indicated on this Statement of Work based upon a mutual understanding of eligible services by IBM and MCS.

2.2 IBM Responsibilities

2.2.1 Network Cabling Maintenance Support (Erate Eligible)

Task Description: The objective of this task is to provide maintenance and support for the IBM installed LAN network cabling which includes on-site technical support.

The following Subtasks will be performed:

1. IBM will provide one technical specialist to support the MCS LAN cabling environment.
2. IBM will respond to MCS service requests for problems determined to be the fault of IBM installed LAN network cabling. This environment includes the CAT5e and CAT6 network cabling, fiber, and associated materials such as conduit, jacks, faceplates, connectors, panels and terminals. The on-site technical specialist will determine the failing area within the cabling system and initiate follow-on activity to resolve the problem.
3. Appropriate repairs will be made to the network cabling system per MCS specifications. If necessary, repaired cable and fiber connections will be tested for CAT5e or CAT6 standard performance.
4. Materials required for the repair will be invoiced in addition to the labor charge per the actual materials used.

Completion Criteria: This task is complete when the period of service coverage has been renewed or expired.

Deliverables:

Monthly Status Report

2.3 MCS Responsibilities

The responsibilities listed in this section are in addition to those responsibilities specified in the *Agreement* and are to be provided at no charge to IBM.

2.3.1 MCS Project Manager

Prior to the start of this Statement of Work under the Agreement, MCS will designate a person, called the MCS Project Manager, to whom all IBM communications will be addressed and who has the authority to act for MCS in all aspects of the contract.

The responsibilities of the MCS Project Manager include:

1. Serving as the interface between IBM and all MCS departments involved in this project.

2. Administering Project Change Control, with the IBM Project Manager, in accordance with the Project Change Control Procedure.
3. Attendance at project status meetings.
4. Resolution of deviations from project plans which may be caused by MCS.
5. Performance of appropriate MCS responsibilities associated with E-rate procedures and guidelines.

2.3.2 Security, Laws, Regulations, and Statutes,

1. MCS is responsible for the actual content of any data file, selection and implementation of controls on its access and use, and security of the stored data.
2. MCS is responsible for the identification and interpretation of any applicable laws, regulations, and statutes that affect MCS application systems or programs which IBM will have access to during this project.
3. It is the responsibility of MCS to assure that the resulting systems and programs meet the requirements of those laws.

2.4 Deliverable Materials

Type I - None

Type II

Monthly Status Report

2.5 Completion Criteria

IBM shall have fulfilled its obligations under this Statement of Work when any one (1) of the following first occurs:

- IBM accomplishes the IBM tasks described in "IBM Responsibilities," including delivery to MCS of the materials listed in "Deliverable Materials",
- MCS or IBM terminates the Project in accordance with the provisions of the *Agreement*.

2.6 Project Change Control

The following provides a detailed process to follow if a change to this Statement of Work is required.

- A Project Change Request (PCR) will be the vehicle for communicating change. The PCR must describe the change, the rationale for the change and the effect the change will have on the project.

- The designated Project Manager of the requesting party will review the proposed change and determine whether to submit the request to the other party.
- Both Project Managers will review the proposed change and approve it for further investigation or reject it. IBM will specify any charges for such investigation. If the investigation is authorized, the Project Managers will sign the PCR which will constitute approval for the investigation charges. IBM will invoice MCS for any such charges. The investigation will determine the effect that the implementation of the PCR will have on price, schedule and other terms and conditions of the Agreement.
- A written Change Authorization and/or Project Change Request (PCR) must be signed by both parties to authorize implementation of the investigated changes.

2.7 Estimated Schedule

The estimated schedule is:

Estimated Start Date: July 01, 2002 Estimated End Date: June 30, 2003

2.8 Charges

The total scope and price for performing the IBM tasks defined in the Statement of Work is limited as follows:

	Monthly Per Site	Annual Per Site	Annual 184 Sites
On-Site Technical Support Erate Eligible			
One Technician	\$ 79.17	\$ 950	\$ 174,800
 Network Cabling Materials Erate Eligible			
Estimated – MCS will be charged actual			\$ 127,500
		Total	\$ 302,300

MCS will be invoiced monthly payable upon receipt.

This offer will expire on February 16, 2002.

3.0 IBM Change Authorization for Project Support Services

Each of us agrees to modify the referenced Statement of Work and any applicable terms as follows:

- The objective of this task is to provide LAN cabling maintenance support for the IBM installed network cabling which includes on-site technical support.

IBM and Memphis City Schools mutually agree that final approval of this project may be subject to review by the Memphis City Schools Board of Education and the availability of Universal Services Funds(E-rate). If funding or approval is not committed no products or services will be delivered and this Change Authorization is void. If partial funding is committed, the products and services will be adjusted based upon a mutually agreed scope of effort.

Charges: \$ 302,300

We agree to incorporate the changes described in this PCR provided you accept this PCR on or before February 16, 2002 by signing in the space provided below.

Each of us agrees that the complete agreement between us about these Services consists of 1) this Change Authorization, 2) the referenced Statement of Work, and 3) the IBM Customer Agreement or IBM Agreement for Services, as applicable (or any equivalent agreement signed by both of us).

Agreed to: **Memphis City Schools**

Agreed to: **International Business Machines Corporation Armonk, New York 10504**

By: 
Authorized Signature

By: 
Authorized Signature

Name (type or print) **Nancy Richie**

Name (type or print) **J. M. Steen**

Date: **1/16/02**

Date: **1-16-02**

Customer Number: **5683003**

Reference Agreement Number: **5J21301**


Customer Address: **2597 Avery Avenue
Memphis, TN 38112**

Reference Statement of Work number: **CFTD7WG**
Change Authorization Number: **PCR 01-030**

Project Name or Identifier: **Technology Business Management Contract**

IBM Office Number: **NFK**

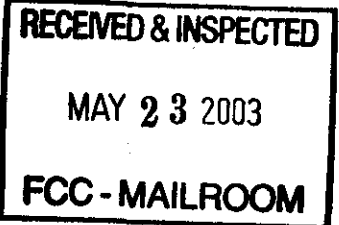
IBM Office Address: **6410 Poplar Ave. Suite 800
Memphis, TN 38119**

 1/15/2002



2597 Avery Avenue • Memphis, Tennessee 38112-4892 • (901) 325-5300

Reply to the office of:
William C. Hazelton, Jr.
Business Support Manager
Information Technology Division
Phone (901) 416-5475
FAX (901) 416-5332



May 7, 2002

Mr. David Le
Schools and Libraries Division
Program Integrity Assurance, Complex
FAX: (973) 599-6524
Re: Application # 331487

Dear Mr. Le:

PLEASE NOTE THE NEW PHONE NUMBER AND FAX NUMBER FOR ME. I HAVE PHYSICALLY MOVED OFFICES SINCE OUR APPLICATIONS WERE SUBMITTED.

Attached please find the information requested in your email of May 2, 2002 as follows:

1. Attachment A-07 - PBX and Key System Maintenance

- a. I need a statement from you that said the maintenance does not cover handsets, voicemail, and music on hold.

RESPONSE: I certify that maintenance in A-07 - PBX and Key System Maintenance (PCR 01-022) does not cover ineligible items such as handsets, voicemail and music on hold.

2. Attachment A-08 - Centrex Phone Support

- a. I need a statement from you that said cabling and wiring do not include any electronic equipments.

RESPONSE: I certify that said cabling and wiring in A-08 - Centrex Telephone Support (PCR 01-023) does not include any electronic equipment.

3. Attachment A-10 - Video Distance Learning Middle & High

Educator Video System

- a. I need a break down with cost for the Tandberg 6000

RESPONSE: See attachment 3a

- b. Are the Subtasks # 4 - 7 are included in the eligible cost or ineligible cost?

RESPONSE: Subtasks # 4 - 6 are included in the ineligible cost? Subtask # 7 the maintenance charges for the CODEC are included in the eligible cost other costs are included in the ineligible cost.

Electric and Network Connectivity

- a. Is the Subtask #1 not included in the eligible cost?

RESPONSE: Subtask # 1 is included in the eligible cost?

Attachment 19

4. Attachment A-11 - Video Distance Learning Elementary

Same questions as above.

RESPONSE: Same answers as for # 3 above. Cost for the Tandberg 6000 is attachment 4a.

5. Attachment A-12 - Server Upgrades

- a. IBM x Series 232 Servers: What will they be used for ? (eg. File, Email, Web, DNS, DHCP, etc.) and what is the quantity ?

RESPONSE: These are used as terminal servers. There are 135 IBM xSeries 232 servers.

- b. MAC PowerPC G4 Servers : Same question as in (a) above.

RESPONSE: These are used as terminal servers. There are 100 MAC PowerPC G4 Servers

- c. What are the cost for the 2 types of servers?

RESPONSE: The IBM xSeries 232 Servers cost \$6,934 each. The MAC Power PC G4 Servers cost \$4,468 each.

- d. If the cost per server is more than \$10,000, I need a break down please.

N/A

6. Attachment A-13 ATM Network ~~Maintenance~~ Enhancements

- a. In Subtask #1 : "Prepare and submit a schedule for MCS acceptance to install required cabling in all designated MCS locations" - I need the following:

i. 3 school quotes fax to me. Please pick one largest, one medium, and one small quote in term of dollars amount.

RESPONSE: See attachment 6.a.i

- ii. I also need a statement from you "all products in quotes are same for other schools only quantities differ and no electronic equipments".

RESPONSE: I certify that all products(indicated by column headings) in attachment 6.a.i are the same for all schools only quantities differ (for example some other schools have "Portable Buildings", these three samples do not). No electrical work is in the requests.

- b. Are all the APC AP9606 Network Feature Card bundled with the UPS?

RESPONSE: No UPS's are included in the application for PCR 01-024 as indicated in the quotes attached above. All UPS features are for existing UPS's.

- c. In Subtask #4 - APC Powerchute Inventory Manager - I need to know the TOTAL cost for all the units.

RESPONSE: In subtask #4 – APC Powerchute Inventory Manager is a single cost license for 1000 nodes. Total Cost is \$4,436.00.

- d. Subtasks #5 - #8 - I need to know the TOTAL cost that associated with APC Powerchute Inventory Manager.

RESPONSE: There is no cost associated with the services stated in subtask #5 - #8.

- e. I see the total ineligible cost is \$4,828,523. Can you tell me what this included ?

RESPONSE: The total ineligible cost of \$ 4, 828,523.00 is the sum of the electrical materials and labor to install electrical circuits for data cabling installation locations.

7. Attachment A-14 - Networks for New Schools and Renovations

- a. Are all the APC AP9606 Network Feature Card bundled with the APC SU3000NET UPS?

RESPONSE: Yes, these are new installations.

- b. I see the total ineligible cost is \$29,880. Can you tell me what this included ?

RESPONSE: Installation of 30 AMP dedicated circuits for the UPS units.

8. Attachment A-15 - Network Support and Maintenance

a. Network Monitoring - Did you include this as part of your request in the FRNs ?

RESPONSE: Network Monitoring is not included in the eligible costs on any FRN's. It is listed as an ineligible cost for FRN 897988.

b. On-Site Technical Support - Is this covers only for items in this application? if not, what else?

RESPONSE: On-Site Technical Support is for items in this application as well as previously installed eligible network devices.

9. Does this application represent a re-filing of Funding Year 4 fund requests? If so what is the circumstance for the re-file?

RESPONSE: A small portion of this application represents a re-filing of Funding Year 4 FRN's. They are as follows:

A-10 Video Distance Learning Middle & High PCR 01-028 –

Reasons: Delay in receipt of Commitment Letter, followed by changing technology review and awaiting approval of Service Substitution.

A-12 Server Upgrades PCR 01-026

Reasons: Anticipated additional needs due to expanding network requests.

A-14 Networks for New Schools and Renovations PCR 01-025

Reasons: Construction delays out of our control.

10. Are the same services/products being requested in this application for this year funding (year 5) in other applications? If so why?

RESPONSE: No

Let me know if you need any additional information.

Sincerely

William C. Hazelton Jr.
Business Support Manager
Information Technology
901.416.5475
901.416-5332 FAX

School Name	Entity	Discount	3COM 3300 Ethernet Switch	AP9606 APC NIC	Enterasys Access Point 2000	RJ45 Gray	ST-SC	ST-MTRJ	Cat6 Data Drops	21st Century Cat6 Drops	Library Cat6 Drops	Cat6 Drops in Portables	Racks	48 Port Patch Panel	24 Strand <500'	6 Strand In/Outdoor Fiber Run to Portable	Phone Cabling to Portable	Duplex Circuit-(6 Outlet)	APC NIC Inventory Mgr Software
CYPRESS JUNIOR HIGH	42202	90%	5	3	0	120	5	5	106	12	0	0	0	3	0	0	0	11	0
DELANO ELEMENTARY	42379	40%	3	1	0	72	3	3	40	18	0	0	0	2	0	0	0	10	0
DENVER ELEMENTARY	42369	90%	2	2	0	48	2	2	40	0	0	0	0	1	0	0	0	7	0

School Name	Entity	Discount	3COM 3300 Ethernet Switch	AP9606 APC NIC	Enterasys Access Point 2000	RJ45	ST-SC	ST-MTRJ	Cat6e Drops (All)	Racks	48 Port Patch Panel	24 Strand <500'	6 Strand In/Outdoor Fiber Run to Portable	Phone Cabling to Portable	Duplex Circuit-6 Outlet	OEM Equipment	Installation	Total Price
CYPRESS JUNIOR HIGH	42202	90%	\$11,785	\$891	\$0	\$840	\$310	\$185	\$58,056	\$0	\$2,280	\$0	\$0	\$0	\$37,082	111,429	1,078	112,507
DELANO ELEMENTARY	42379	40%	\$7,071	\$297	\$0	\$504	\$186	\$111	\$28,536	\$0	\$1,520	\$0	\$0	\$0	\$33,711	71,936	616	72,552
DENVER ELEMENTARY	42369	90%	\$4,714	\$594	\$0	\$336	\$124	\$74	\$19,680	\$0	\$760	\$0	\$0	\$0	\$23,598	49,880	616	50,496



A – 13 ATM Network Enhancements PCR 01-024

A-13.1 Services Provider: IBM Corporation

A-13.2 Service Provider SPIN Number: 143005607

A-13.3 Contract Number: 5J21301

A-13.4 Services Provided:

Installation of a Cabling Infrastructure and UPS equipment

Task Description: The objective of this task is to provide MCS with additional cabling services in its existing schools. IBM will also provide procurement and installation services for UPS equipment in all MCS schools.

The following subtasks will be performed by IBM:

1. Prepare and submit a schedule for MCS acceptance to install required cabling in all designated MCS locations.
2. Procure and coordinate all vendor services required to install the required cabling and designated network components in all designated MCS locations in accordance with the MCS provided specifications for each MCS location.
3. Procure and install APC AP9606 Network Feature Card in all UPS equipment in all IDF and MDF locations, as indicated in "Attachment A".
4. Procure and install APC PowerChute Inventory Manager at MCS Avery location.
5. Maintain the project schedule and conduct weekly project status meetings to communicate project status to all departments and individuals involved in the project.
6. Document and ensure resolution of project issues related to the products and services provided by IBM.
7. With the MCS Project Manager, administer Project Change Control in accordance with "Section 8.0 Project Change Control Procedure".
8. Perform appropriate responsibilities associated with E-rate procedures and guidelines.

A-13.5 Total Cost

	Total Equipment	Total Services	Total	Total Ineligible	Total Eligible
Description of Service	Cost	Cost	Cost	Cost	Cost
Network Enhancement	\$1,147,111.00	\$9,526,490.00	\$ 10,673,601.00	\$4,828,523.00	\$ 5,845,078.00